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FIG. 1

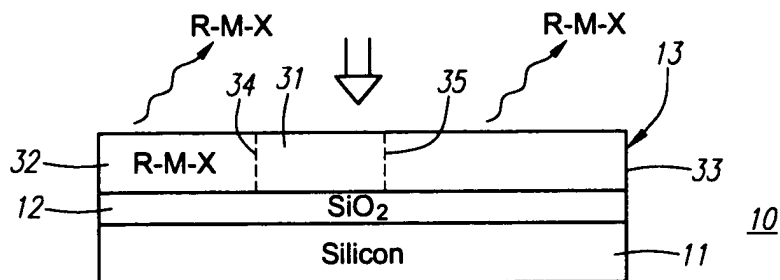


FIG. 2

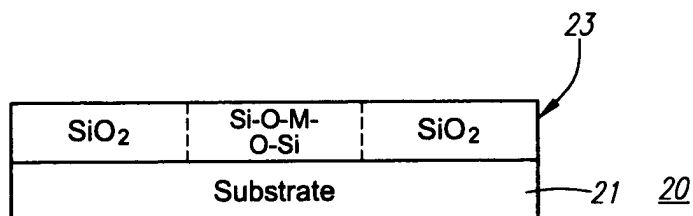


FIG. 3

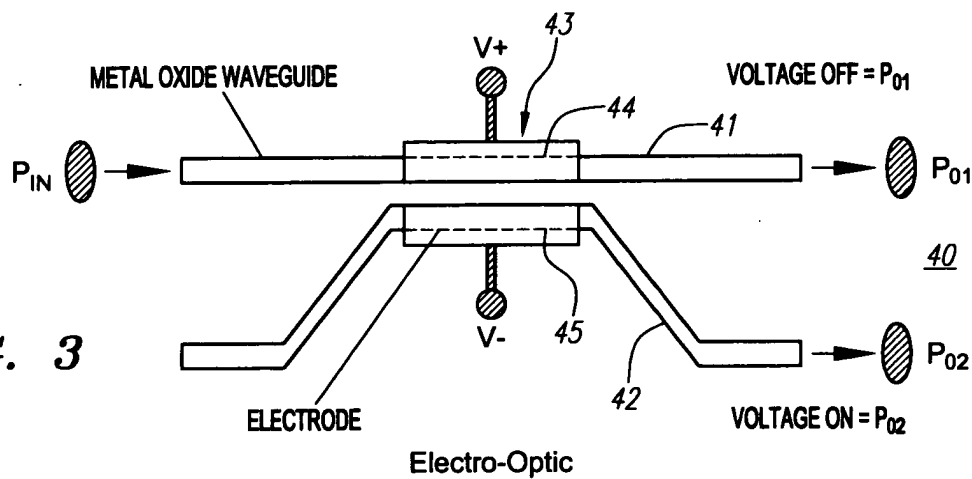
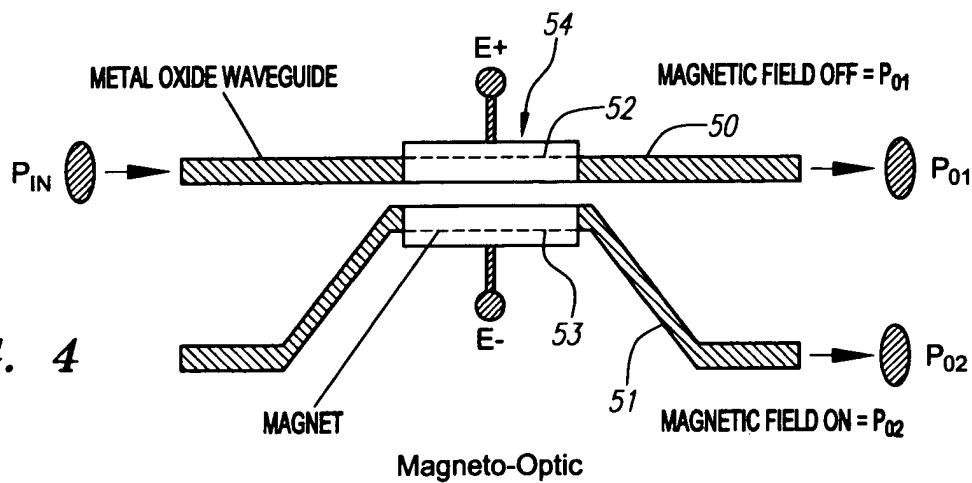


FIG. 4



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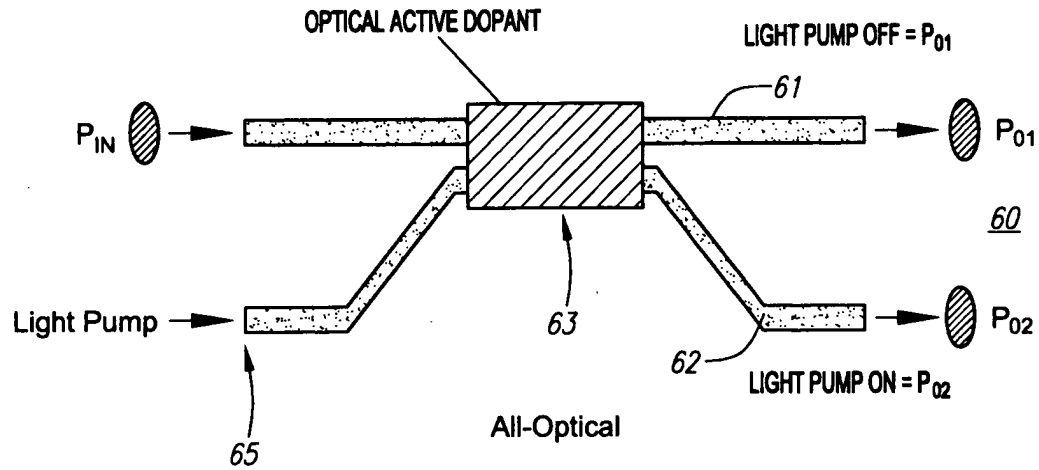


FIG. 5

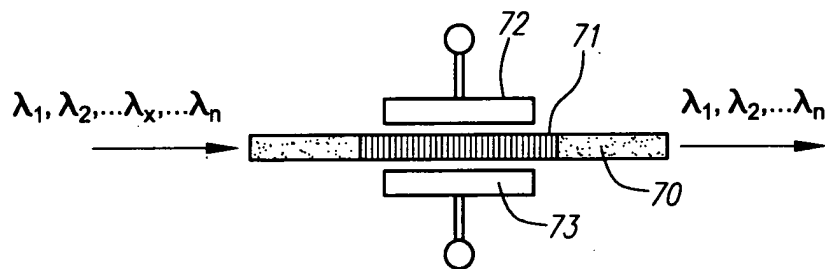


FIG. 6

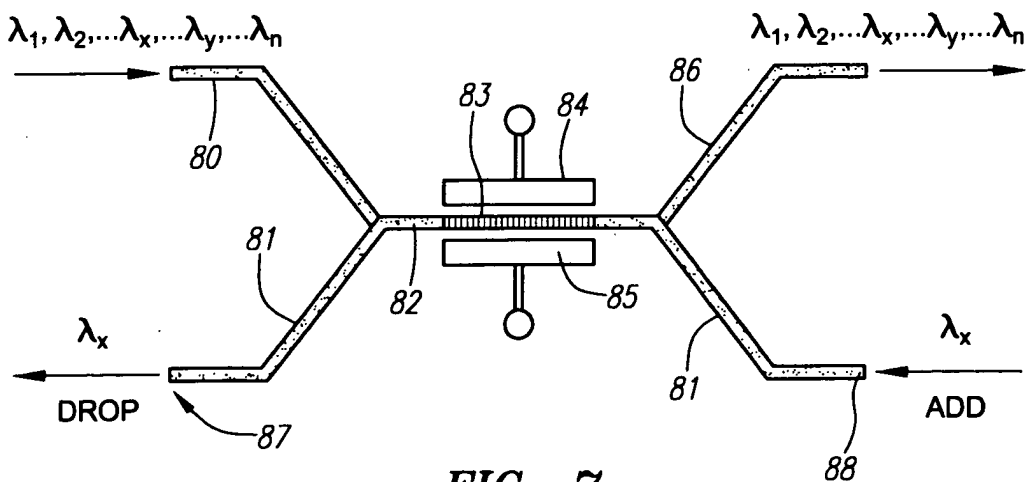
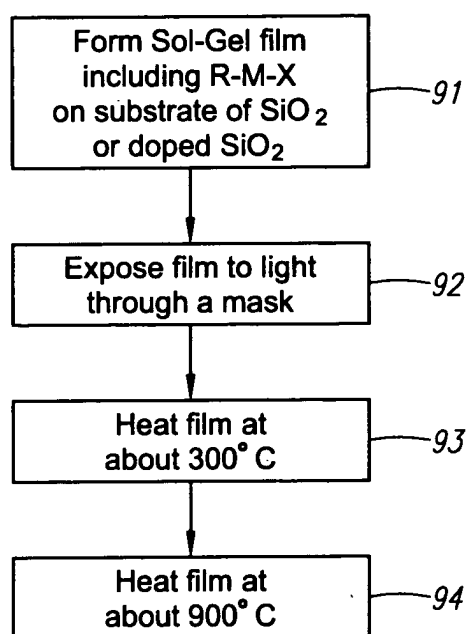


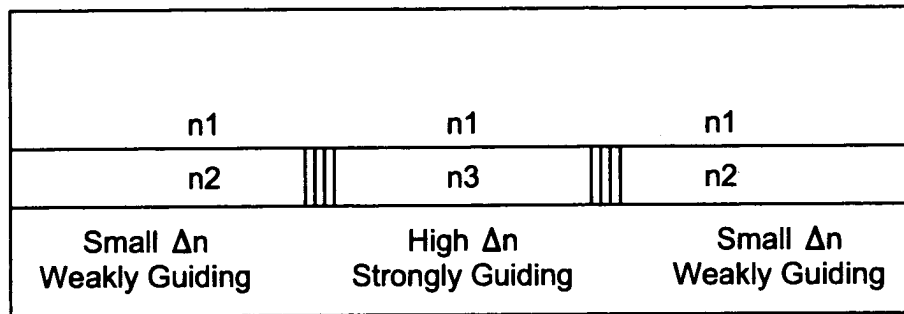
FIG. 7

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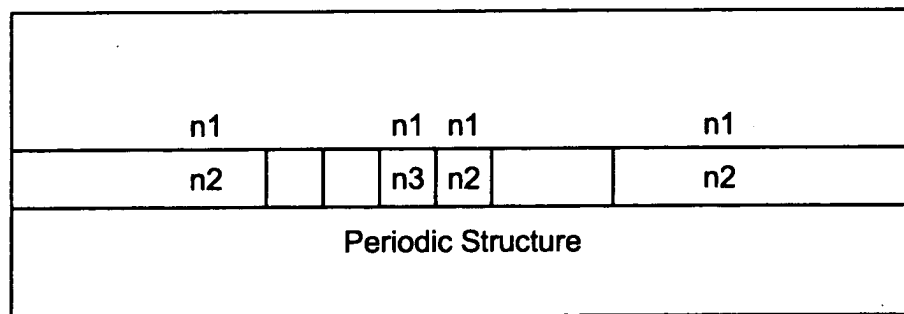
**FIG. 8**

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Waveguide structure with altered refractive index profile

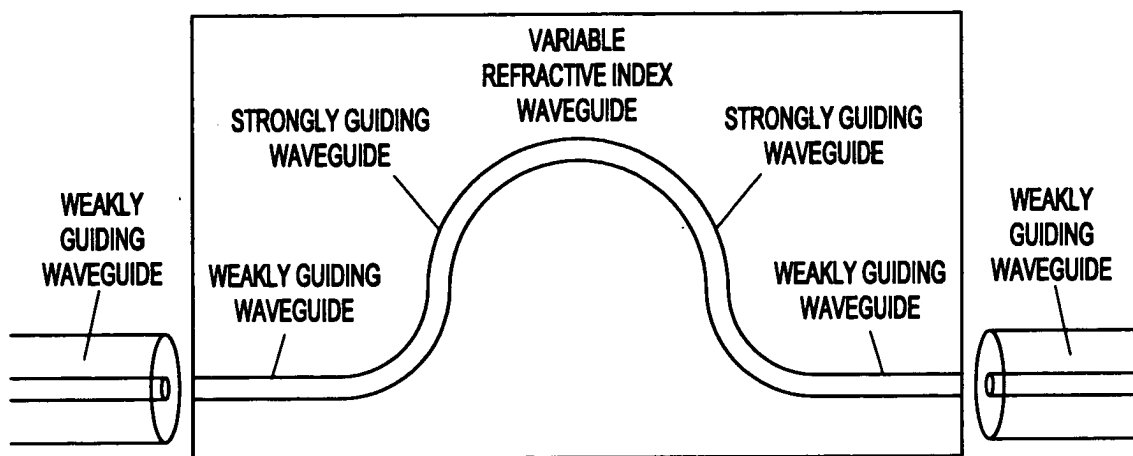
**FIG. 9**



Waveguide structure with altered periodic refractive index profile

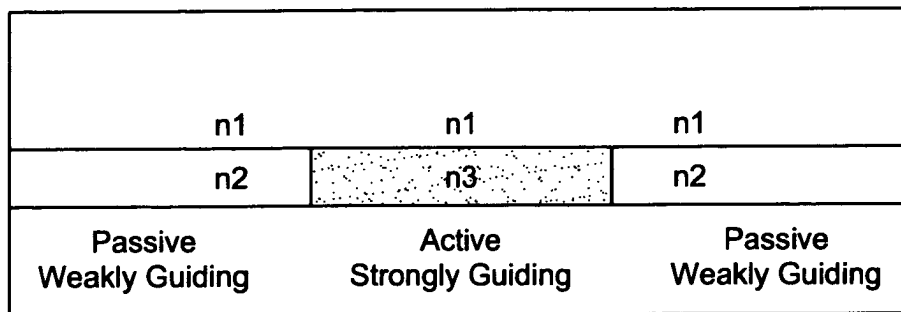
**FIG. 10**

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Waveguide structure with tight curvatures using variable refractive index profiles

**FIG. 11**



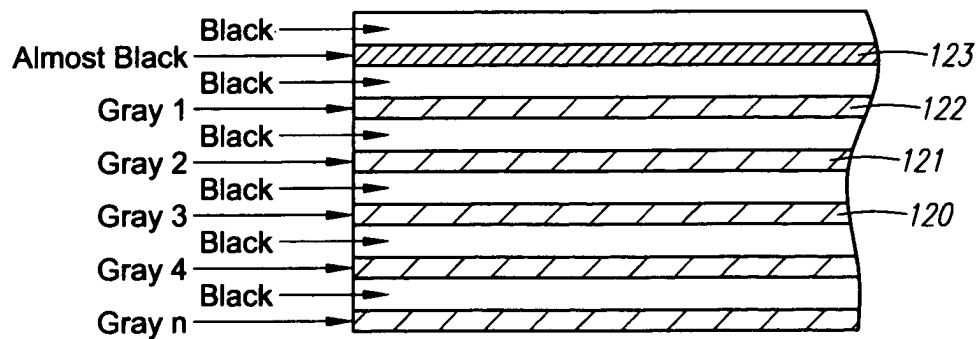
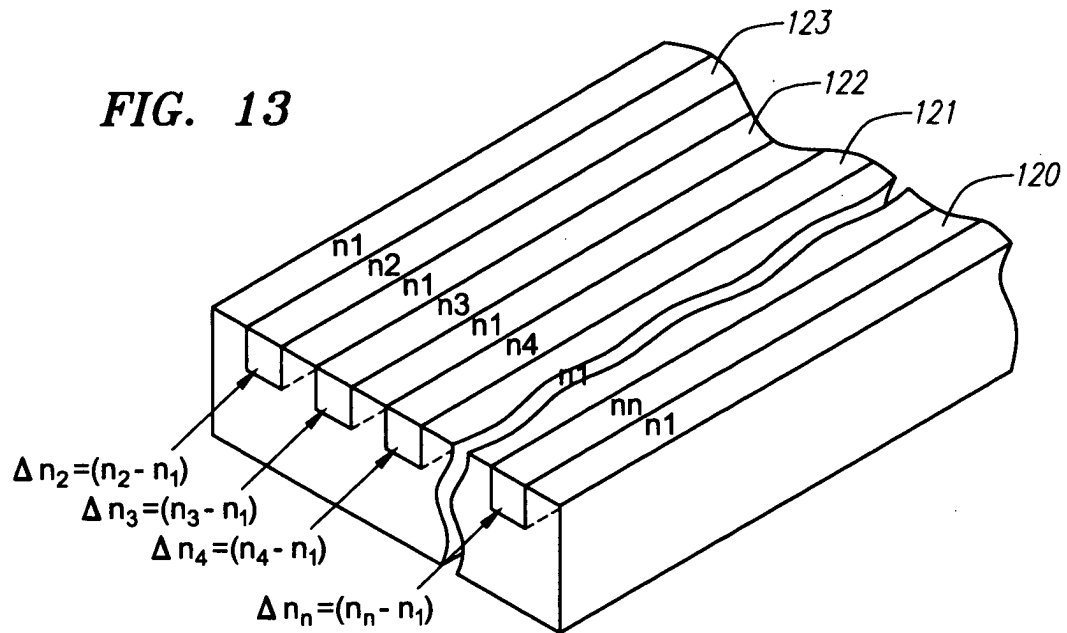
Active waveguide structure with variable refractive index profiles

**FIG. 12**

REPLACEMENT SHEET

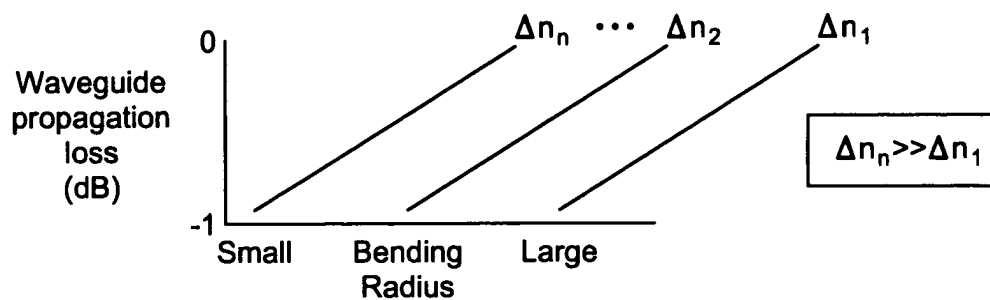
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**FIG. 13**

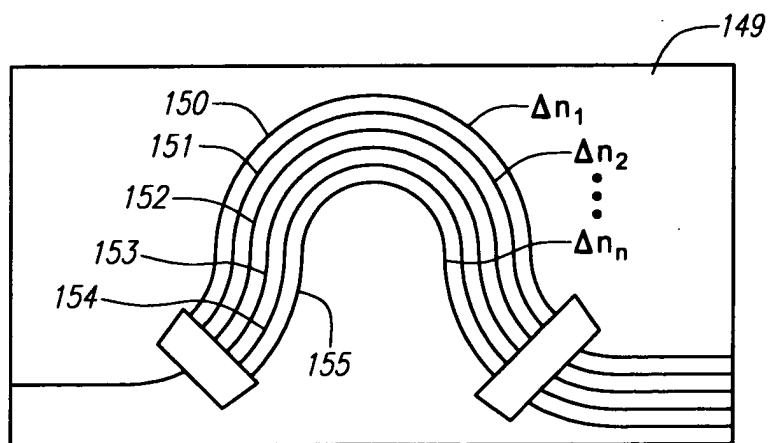


**FIG. 14**

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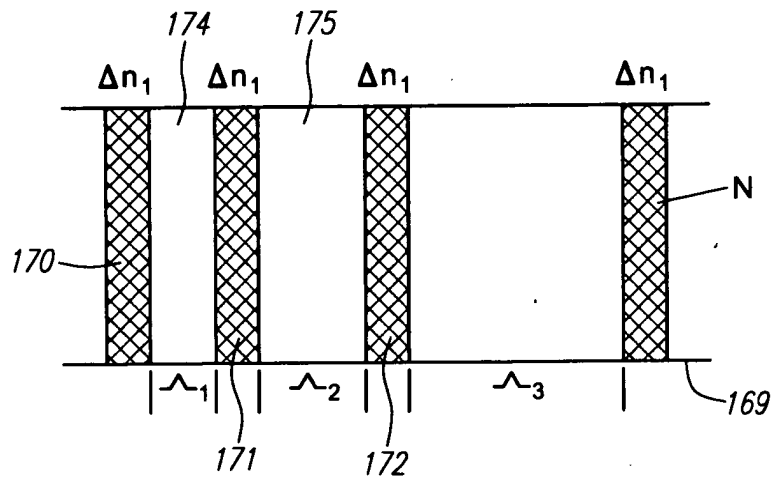
**FIG. 15**



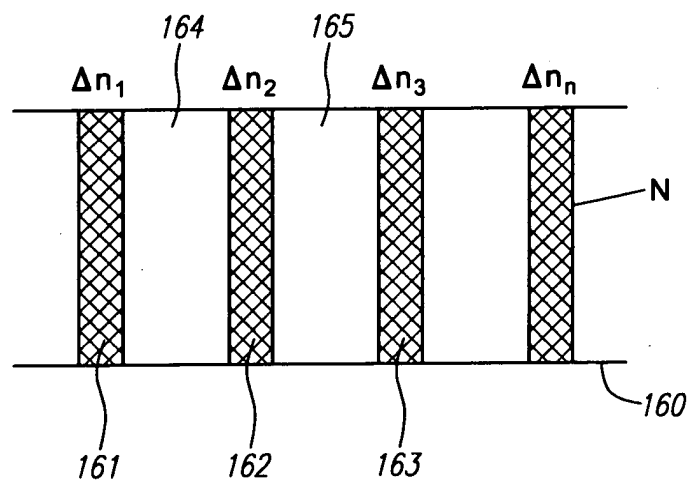
**FIG. 16**

REPLACEMENT SHEET

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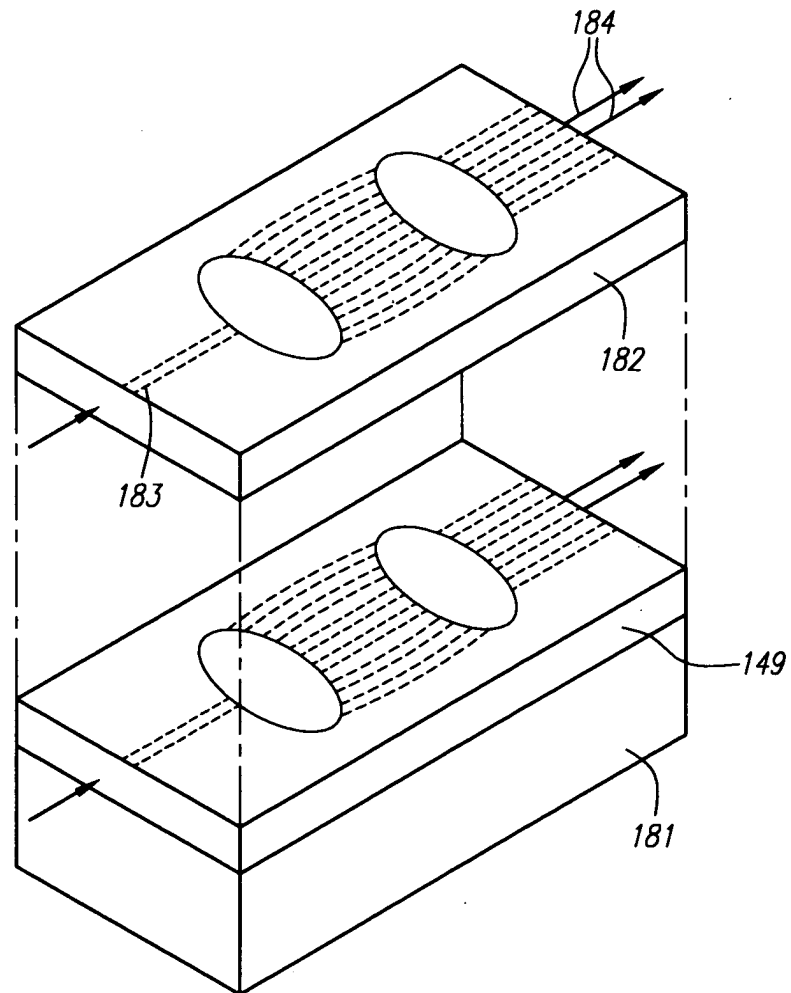
**FIG. 17**  
(PRIOR ART)



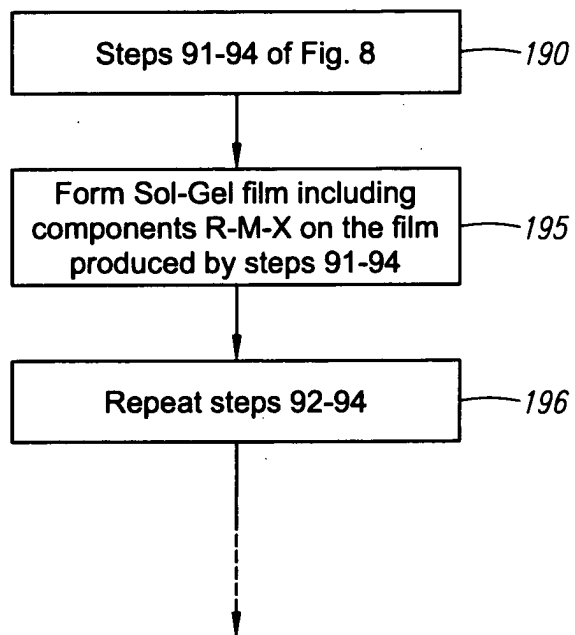
**FIG. 18**



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**FIG. 19**



**FIG. 20**